

Sequence Listing

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		US 09/479,252 2000-01-07												
		US 09/060,533 1998-04-15												
	US 09/007,886 1998-01-15													
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Cys	Val	Leu	Ile	Val 20	Ile	Phe	Thr	Val	Leu 25	Leu	Gln	Ser	Leu	Cys 30
Val	Ala	Val	Thr	Tyr 35	Val	Tyr	Phe	Thr	Asn 40	Glu	Leu	Lys	Gln	Met 45
Gln	Asp	Lys	Tyr	Ser 50	Lys	Ser	Gly	Ile	Ala 55	Cys	Phe	Leu	Lys	Glu 60
Asp .	Asp	Ser	Tyr	Trp 65	Asp	Pro	Asn	Asp	Glu 70	Glu	Ser	Met	Asn	Ser 75
Pro	Cys	Trp	Gln	Val 80	Lys	Trp	Gln	Leu	Arg 85	Gln	Leu	Val	Arg	Lys 90
Met	Ile	Leu	Arg	Thr 95	Ser	Glu	Glu	Thr	Ile 100	Ser	Thr	Val	Gln	Glu 105
Lys	Gln	Gln	Asn	Ile 110	Ser	Pro	Leu	Val	Arg 115	Glu	Arg	Gly	Pro	Gln 120
Arg '	Val	Ala	Ala	His 125	Ile	Thr	Gly	Thr	Arg 130	Gly	Arg	Ser	Asn	Thr 135
Leu	Ser	Ser	Pro	Asn 140	Ser	Lys	Asn	Glu	Lys 145	Ala	Leu	Gly	Arg	Lys 150

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Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser
                155
Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly
Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu
Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile
                                    205
Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser
                215
                                    220
Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg
                                    250
                                                         255
Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
                275
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<400> 2 tttcctcact gactataaaa gaatagagaa ggaagggctt cagtgaccgg 50

ctgcctggct gacttacagc agtcagactc tgacaggatc atggctatga 100 tggaggtcca gggggaccc agcctgggac agacctgcgt gctgatcgtg 150 atcttcacag tgctcctgca gtctctctgt gtggctgtaa cttacgtgta 200 ctttaccaac gagctgaagc agatgcagga caagtactcc aaaagtggca 250 ttgcttgtt cttaaaagaa gatgacagtt attgggaccc caatgacgaa 300 gagagtatga acagccctg ctggcaagtc aagtggcaac tccgtcagct 350 cgttagaaag atgatttga gaacctctga ggaaaccatt tctacagttc 400 aagaaaagca acaaatatt tctcccctag tgagagaaag aggtcctcag 450 agagtagcag ctcacataac tgggaccaga ggaagaagca acacattgtc 500 ttctccaaac tccaagaatg aaaaggctct gggccgcaaa ataaactcct 550 gggaatcatc aaggagtggg cattcattcc tgagcaactt gcacttgagg 600 aatggtgaac tggtcatca tgaaaaaggg ttttactaca tctattccca 650 aacaaatggt ccaatatatt tacaaataca caagttatcc tgagccctata 750

<210> 2

<211> 1042

<212> DNA

<213> Homo sapiens

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ttqttqatqa aaaqtqctaq aaataqttqt tqqtctaaaq atgcagaata 800
 tggactctat tccatctatc aagggggaat atttgagctt aaggaaaatg 850
 acagaatttt tgtttctgta acaaatgagc acttgataga catggaccat 900
 gaagccagtt ttttcggggc ctttttagtt ggctaactga cctggaaaga 950
 aaaagcaata acctcaaagt gactattcag ttttcaggat gatacactat 1000
 gaagatgttt caaaaaatct gaccaaaaca aacaaacaga aa 1042
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<212> DNA
<213> Homo sapiens
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 gggaccccaa tgacgaagag agtatgaaca gcccctgctg gcaagtcaag 50
 tggcaactcc gtcagctcgt tagaaagatg attttgagaa cctctgagga 100
 aaccatttct acagttcaag aaaagcaaca aaatatttct cccctagtga 150
 gagaaagagg tcctcagaga gtagcagctc acataactgg gaccagagga 200
 agaagcaaca cattgtcttc tccaaactcc aagaatgaaa aggctctggg 250
 ccgcaaaata aactcctggg aatcatcaag gagtgggcat tcattcctga 300
 gcaacttgca cttgaggaat ggtgaactgg tcatccatga aaaagggttt 350
 tactacatct attcccaaac atactttcga tttcaggagg 390
<210> 4
<211> 60
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence is synthesized
<400> 4
tgacgaagag agtatgaaca gcccctgctg gcaagtcaag tggcaactcc 50
gtcagctcgt 60
<210> 5
<211> 60
<212> DNA
<213> Artificial Sequence
<223> Sequence is synthesized
<400> 5
ggtgaactgg tcatccatga aaaagggttt tactacatct attcccaaac 50
atactttcga 60
<210> 6
<211> 13
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<212> PRT

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<213> Artificial Sequence
<220>
<223> Sequence is synthesized
Ser Met Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
<210> 7
<211> 27
<212> PRT
<213> Artificial Sequence
<223> Sequence is synthesized
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Lys Tyr Ala Leu Ala Asp Ala Ser Leu Lys Met Ala Asp Pro Asn
Arg Phe Arg Gly Lys Asp Leu Pro Val Leu Asp Gln
<210> 8
<211> 24
<212> PRT
<213> Artificial Sequence
<223> Sequence is synthesized
<400> 8
Met Gly His His His His His His His His Ser Ser Gly
His Ile Asp Asp Asp Lys His Met
                 20
<210> 9
<211> 175
<212> PRT
<213> Homo sapiens
<400> 9
Asp Pro Ala Gly Leu Leu Asp Leu Arg Gln Gly Met Phe Ala Gln
                  5
Leu Val Ala Gln Asn Val Leu Leu Ile Asp Gly Pro Leu Ser Trp
Tyr Ser Asp Pro Gly Leu Ala Gly Val Ser Leu Thr Gly Gly Leu
Ser Tyr Lys Glu Asp Thr Lys Glu Leu Val Val Ala Lys Ala Gly
                 50
Val Tyr Tyr Val Phe Phe Gln Leu Glu Leu Arg Arg Val Val Ala
Gly Glu Gly Ser Gly Ser Val Ser Leu Ala Leu His Leu Gln Pro
                 80
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Leu	Arg	Ser	Ala	Ala 95	Gly	Ala	Ala	Ala	Leu 100	Ala	Leu	Thr	Val	Asp 105
Leu	Pro	Pro	Ala	Ser 110	Ser	Glu	Ala	Arg	Asn 115	Ser	Ala	Phe	Gly	Phe 120
Gln	Gly	Arg	Leu	Leu 125	His	Leu	Ser	Ala	Gly 130	Gln	Arg	Leu	Gly	Val 135
His	Leu	His	Thr	Glu 140	Ala	Arg	Ala	Arg	His 145	Ala	Trp	Gln	Leu	Thr 150
Gln	Gly	Ala	Thr	Val 155	Leu	Gly	Leu	Phe	Arg 160	Val	Thr	Pro	Glu	Ile 165
Pro	Ala	Gly	Leu	Pro 170	Ser	Pro	Arg	Ser	Glu 175					
<210: <211: <212: <213:	> 132 > PR	Γ	apier	ns										
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Thr	Glu	Tyr	Lys	Lys 20	Glu	Lys	Gly	Phe	Ile 25	Leu	Thr	Ser	Gln	Lys 30
Glu	Asp	Glu	Ile	Met 35	Lys	Val	Gln	Asn	Asn 40	Ser	Val	Ile	Ile	Asn 45
Cys	Asp	Gly	Phe	Tyr 50	Leu	Ile	Ser	Leu	Lys 55	Gly	Tyr	Phe	Ser	Gln 60
Glu	Val	Asn	Ile	Ser 65	Leu	His	Tyr	Gln	Lys 70	Asp	Glu	Glu	Pro	Leu 75
Phe	Gln	Leu	Lys	Lys 80	Val	Arg	Ser	Val	Asn 85	Ser	Leu	Met	Val	Ala 90
Ser	Leu	Thr	Tyr	Lys 95	Asp	Lys	Val	Tyr	Leu 100	Asn	Val	Thr	Thr	Asp 105
Asn	Thr	Ser	Leu	Asp 110	Asp	Phe	His	Val	Asn 115	Gly	Gly	Glu	Leu	Ile 120
Leu	Ile	His	Gln	Asn 125	Pro	Gly	Glu	Phe	Cys 130	Val	Leu			
<210: <211: <212: <213:	> 15: > PR:	Г	apier	ıs										
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Leu	Gln	Leu	Asn	His 20	Thr	Gly	Pro	Gln	Gln 25	Asp	Pro	Arg	Leu	Tyr 30

```
Trp Gln Gly Gly Pro Ala Leu Gly Arg Ser Phe Leu His Gly Pro 45

Glu Leu Asp Lys Gly Gln Leu Arg Ile His Arg Asp Gly Ile Tyr 60

Met Val His Ile Gln Val Thr Leu Ala Ile Cys Ser Ser Thr Thr 75

Ala Ser Arg His Mis Pro Thr Thr Leu Ala Val Gly Ile Cys Ser 90

Pro Ala Ser Arg Ser Ile Ser Leu Leu Arg 110 Leu Ser Phe His Phe 105

His Gln Gly Cys Thr Ile Val Ser Gln Arg Leu Thr Pro Leu Ala 120

Arg Gly Asp Thr Leu Cys Thr Asn Leu Thr Gly Thr Leu Pro 135

Ser Arg Asn Thr Asp Glu Thr Phe Phe Gly Val Gln Trp Val Arg 150

Pro
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<210> 12

<211> 148

<212> PRT

<213> Homo sapiens

<400> 12

Leu Cys Ile Leu Lys Arg Ala Pro Phe Lys Lys Ser Trp Ala Tyr
1 5 10 15

Leu Gln Val Ala Lys His Leu Asn Lys Thr Lys Leu Ser Trp Asn

20 25 30

Lys Asp Gly Ile Leu His Gly Val Arg Tyr Gln Asp Gly Asn Leu

Val Ile Gln Phe Pro Gly Leu Tyr Phe Ile Ile Cys Gln Leu Gln

Phe Leu Val Gln Cys Pro Asn Asn Ser Val Asp Leu Lys Leu Glu
65 70 75

Leu Leu Ile Asn Lys His Ile Lys Lys Gln Ala Leu Val Thr Val

Cys Glu Ser Gly Met Gln Thr Lys His Val Tyr Gln Asn Leu Ser 95 100

Gln Phe Leu Leu Asp Tyr Leu Gln Val Asn Thr Thr Ile Ser Val

Asn Val Asp Thr Phe Gln Tyr Ile Asp Thr Ser Thr Phe Pro Leu 125 130 135

Glu Asn Val Leu Ser Ile Phe Leu Tyr Ser Asn Ser Asp 140 145

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<210> 13
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<211> 157

<212> PRT

<213> Homo sapiens

<400> 13

Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His

1 10 15

Val Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn 20 25 30

Arg Arg Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp
35 40 45

Asn Gln Leu Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser
50 55 60

Gln Val Leu Phe Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu
65 70 75

Leu Thr His Thr Ile Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys

Val Asn Leu Leu Ser Ala Ile Lys Ser Pro Cys Gln Arg Glu Thr 95 100 105

Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu Pro Ile Tyr Leu 110 115 120

Gly Gly Val Phe Gln Leu Glu Lys Gly Asp Arg Leu Ser Ala Glu 125 130 135

Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Gly Gln Val

Tyr Phe Gly Ile Ile Ala Leu 155

<210> 14

<211> 168

<212> PRT

<213> Homo sapiens

<400> 14

Glu Glu Pro Glu Thr Asp Leu Ser Pro Gly Leu Pro Ala Ala His 1 5 10 15

Leu Ile Gly Ala Pro Leu Lys Gly Gln Gly Leu Gly Trp Glu Thr 20 25 30

Thr Lys Glu Gln Ala Phe Leu Thr Ser Gly Thr Gln Phe Ser Asp
35 40 45

Ala Glu Gly Leu Ala Leu Pro Gln Asp Gly Leu Tyr Tyr Leu Tyr
50 55 60

Cys Leu Val Gly Tyr Arg Gly Arg Ala Pro Pro Gly Gly Gly Asp
65 70 75

Pro Gln Gly Arg Ser Val Thr Leu Arg Ser Ser Leu Tyr Arg Ala 80 85 90

```
Gly Gly Ala Tyr Gly Pro Gly Thr Pro Glu Leu Leu Glu Gly
Ala Glu Thr Val Thr Pro Val Leu Asp Pro Ala Arg Arg Gln Gly
                 110
Tyr Gly Pro Leu Trp Tyr Thr Ser Val Gly Phe Gly Gly Leu Val
Gln Leu Arg Arg Gly Glu Arg Val Tyr Val Asn Ile Ser His Pro
Asp Met Val Asp Phe Ala Arg Gly Lys Thr Phe Phe Gly Ala Val
                                     160
Met Val Gly
<210> 15
<211> 155
<212> PRT
<213> Homo sapiens
<400> 15
Pro Lys Met His Leu Ala His Ser Thr Leu Lys Pro Ala Ala His
Leu Ile Gly Asp Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg Ala
Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn
Asn Ser Leu Leu Val Pro Thr Ser Gly Ile Tyr Phe Val Tyr Ser
Gln Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala Thr Ser
Ser Pro Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser Ser Gln
Tyr Pro Phe His Val Pro Leu Leu Ser Ser Gln Lys Met Val Tyr
                                     100
Pro Gly Leu Gln Glu Pro Trp Leu His Ser Met Tyr His Gly Ala
Ala Phe Gln Leu Thr Gln Gly Asp Gln Leu Ser Thr His Thr Asp
Gly Ile Pro His Leu Val Leu Ser Pro Ser Thr Val Val Phe Phe
                                     145
                 140
Gly Ala Phe Ala Leu
<210> 16
<211> 149
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<400> 16

<212> PRT

<213> Homo sapiens

Met 1	Gln	Lys	Gly	Asp 5	Gln	Asn	Pro	Gln	Ile 10	Ala	Ala	His	Val	Ile 15
Ser	Glu	Ala	Ser	Ser 20	Lys	Thr	Thr	Ser	Val 25	Leu	Gln	Trp	Ala	Glu 30
Lys	Gly	Tyr	Tyr	Thr 35	Met	Ser	Asn	Asn	Leu 40	Val	Thr	Leu	Glu	Asn 45
Gly	Lys	Gln	Leu	Thr 50	Val	Lys	Arg	Gln	Gly 55	Leu	Tyr	Tyr	Ile	Tyr 60
Ala	Gln	Val	Thr	Phe 65	Cys	Ser	Asn	Arg	Glu 70	Ala	Ser	Ser	Gln	Ala 75
Pro	Phe	Ile	Ala	Ser 80	Leu	Cys	Leu	Lys	Ser 85	Pro	Gly	Arg	Phe	Glu 90
Arg	Ile	Leu	Leu	Arg 95	Ala	Ala	Asn	Thr	His 100	Ser	Ser	Ala	Lys	Pro 105
Cys	Gly	Gln	Gln	Ser 110	Ile	His	Leu	Gly	Gly 115	Val	Phe	Glu	Leu	Gln 120
Pro	Gly	Ala	Ser	Val 125	Phe	Val	Asn	Val	Thr 130	Asp	Pro	Ser	Gln	Val 135
Ser	His	Gly	Thr	Gly 140	Phe	Thr	Ser	Phe	Gly 145	Leu	Leu	Lys	Leu	

<210> 17

<400> 17

Pro Ser Pro Pro Pro Glu Lys Lys Glu Leu Arg Lys Val Ala His 15

Leu Thr Gly Lys Ser Asn Ser Arg Ser Met 25 Pro Leu Glu Trp Glu 30

Asp Thr Tyr Gly Ile Val Val Leu Leu Ser Gly Val Lys Tyr Lys 45

Lys Gly Gly Leu Val Ile Asn Glu Thr Gly Leu Tyr Phe Val Tyr 60

Ser Lys Val Tyr Phe Arg Gly Gln Ser Cys Asn Asn Leu Pro Leu 75

Ser His Lys Val Tyr Met Arg Asn Ser Lys Tyr Pro Gln Asp Leu 90

Val Met Met Glu Gly Lys Met Met Ser Tyr Cys Thr Thr Gly Gln 105

Met Trp Ala Arg Ser Ser Tyr Leu Gly Ala Val Phe Asn Leu Thr

Ser Ala Asp His Leu Tyr Val Asn Val Ser Glu Leu Ser Leu Val

125

130

135

<211> 149

<212> PRT

<213> Homo sapiens

Asn Phe Glu Glu Ser Gln Thr Phe Phe Gly Leu Tyr Lys Leu 140 145